

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,314,350 B2
APPLICATION NO. : 10/616499
DATED : January 1, 2008
INVENTOR(S) : Brown

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Delete Title page illustrating a figure(s), and substitute therefor, new Title page illustrating a figure(s). (attached)

Delete drawing sheets 1-4, and substitute therefor drawing sheets 1-4. (attached)

Signed and Sealed this

Thirteenth Day of May, 2008

A handwritten signature in black ink, appearing to read "Jon W. Dudas". The signature is stylized with a large, looped initial "J" and a cursive "Dudas".

JON W. DUDAS
Director of the United States Patent and Trademark Office

(12) **United States Patent**
Brown

(10) **Patent No.:** **US 7,314,350 B2**
(45) **Date of Patent:** **Jan. 1, 2008**

(54) **ENERGY STORE CIRCUIT FOR CONTROLLING ROTOR ROTATION**

(75) **Inventor:** Fred A. Brown, Coronado, CA (US)

(73) **Assignee:** Comair Rotron, Inc., San Diego, CA (US)

(*) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 562 days.

(21) **Appl. No.:** 10/616,499

(22) **Filed:** Jul. 9, 2003

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Related U.S. Application Data

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(51) **Int. Cl.**
F04B 49/06 (2006.01)

(52) **U.S. Cl.** 417/44.1; 417/44.11; 417/411

(58) **Field of Classification Search** 417/44.1, 417/44.11, 411; 310/72, 68 R; 318/794, 318/795, 796

See application file for complete search history.

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Primary Examiner—Anthony Stashick

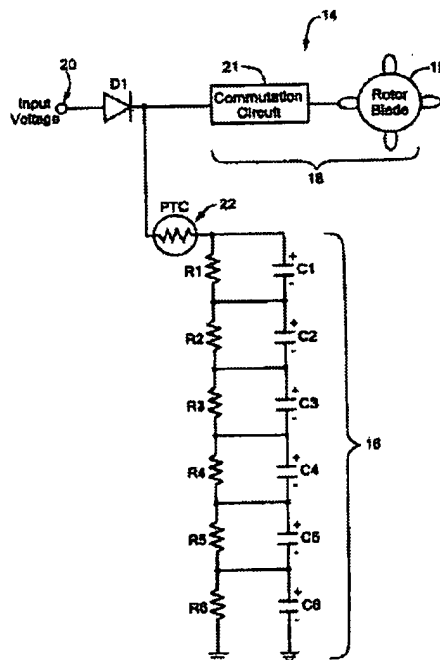
Assistant Examiner—Vikansha Dwivedi

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(57) **ABSTRACT**

A fan controller for controlling the rotation of a rotor (with a fan blade) has a current limiting element to control current flow to a capacitive storage apparatus. More specifically, the fan controller has an input for receiving an input voltage, the noted capacitive storage in electrical communication with both rotor circuitry (that controls rotor rotation) and the input, and the noted current limiting element coupled between the input and the capacitive storage. The rotor circuitry is energizable by the input voltage, while, in a similar manner, the capacitive storage is capable of charging by receiving current from the input. The current limiting element at least in part controls current flow from the input to the capacitive storage.

27 Claims, 4 Drawing Sheets



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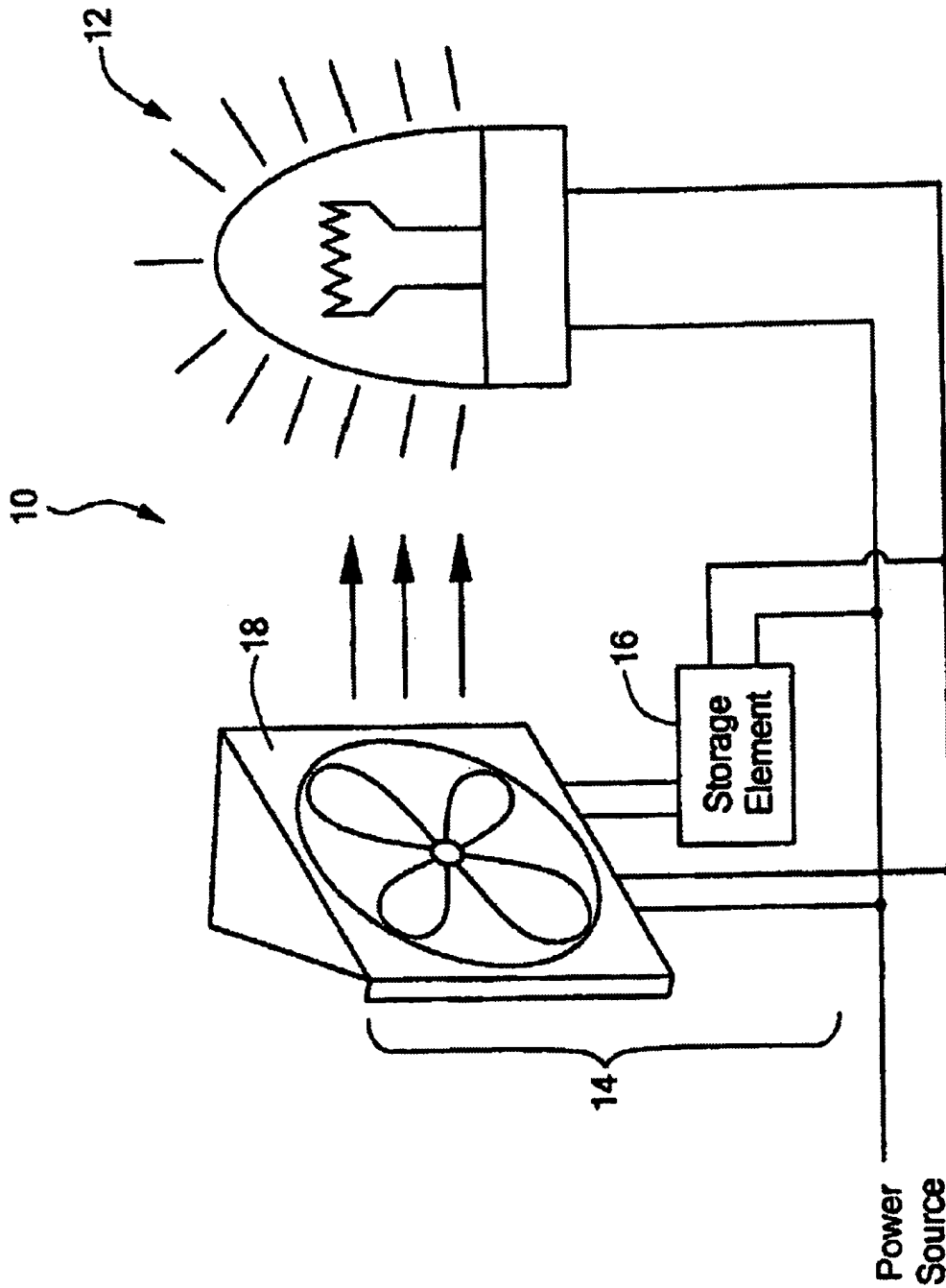


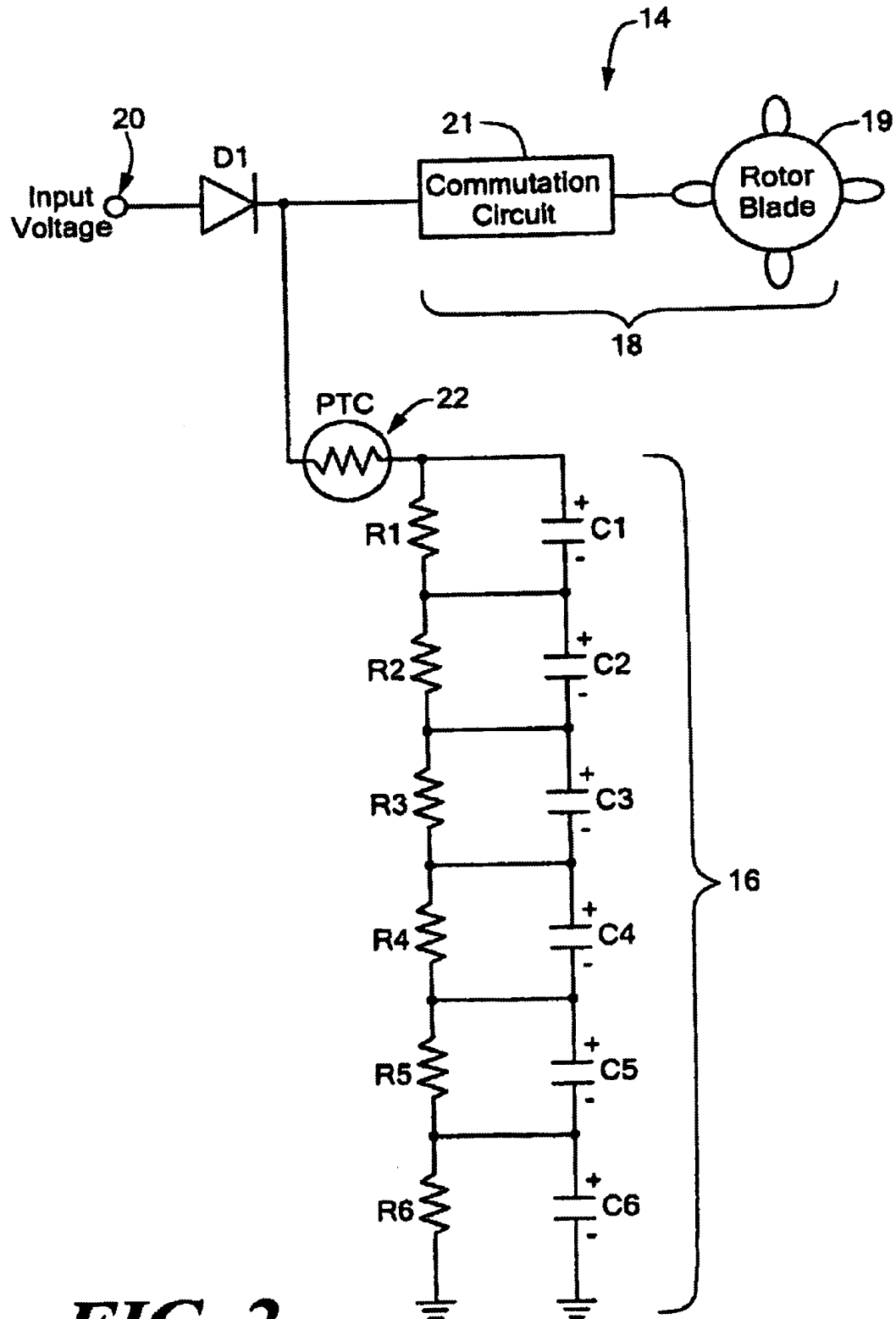
FIG. 1

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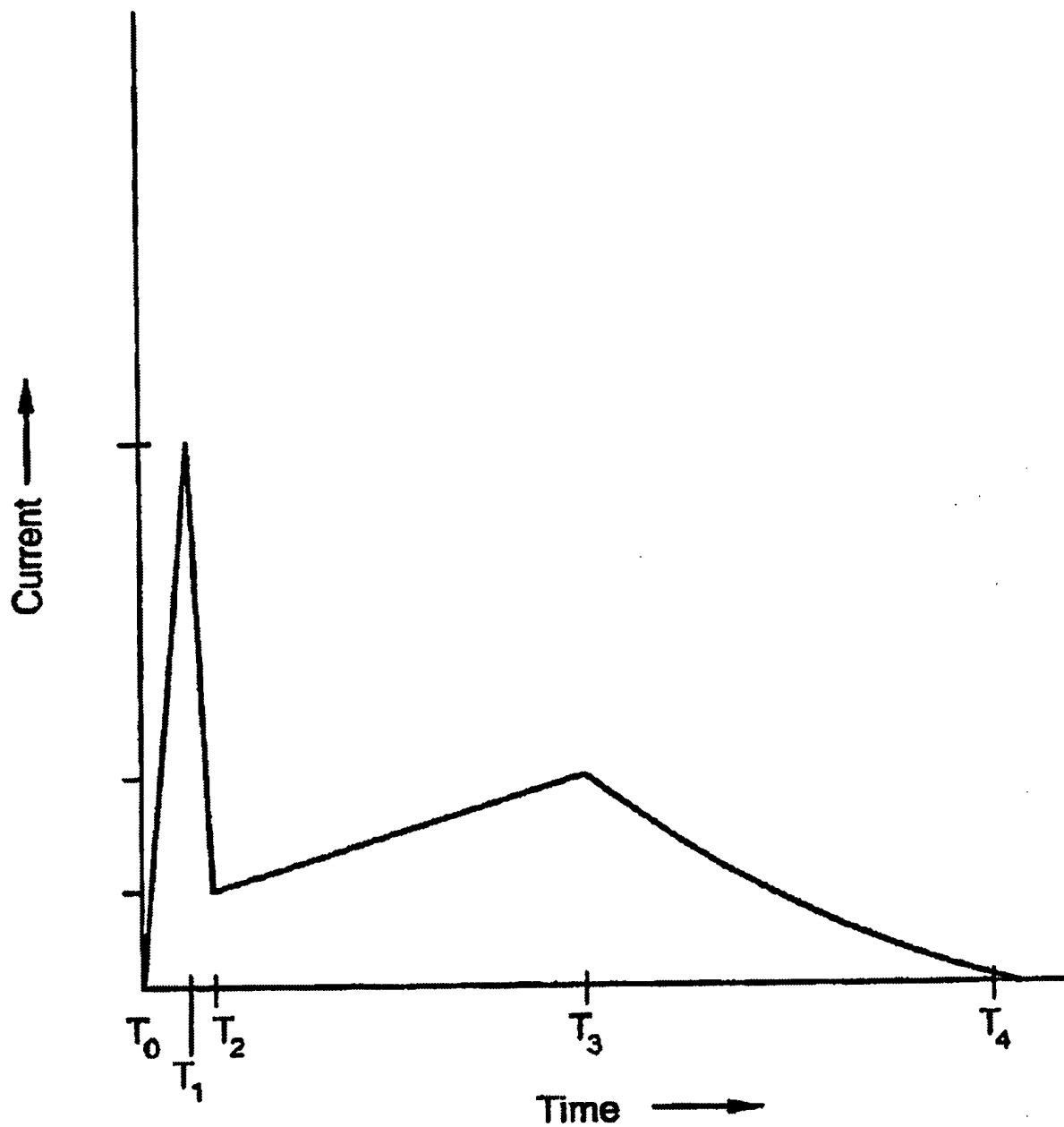
**FIG 2**

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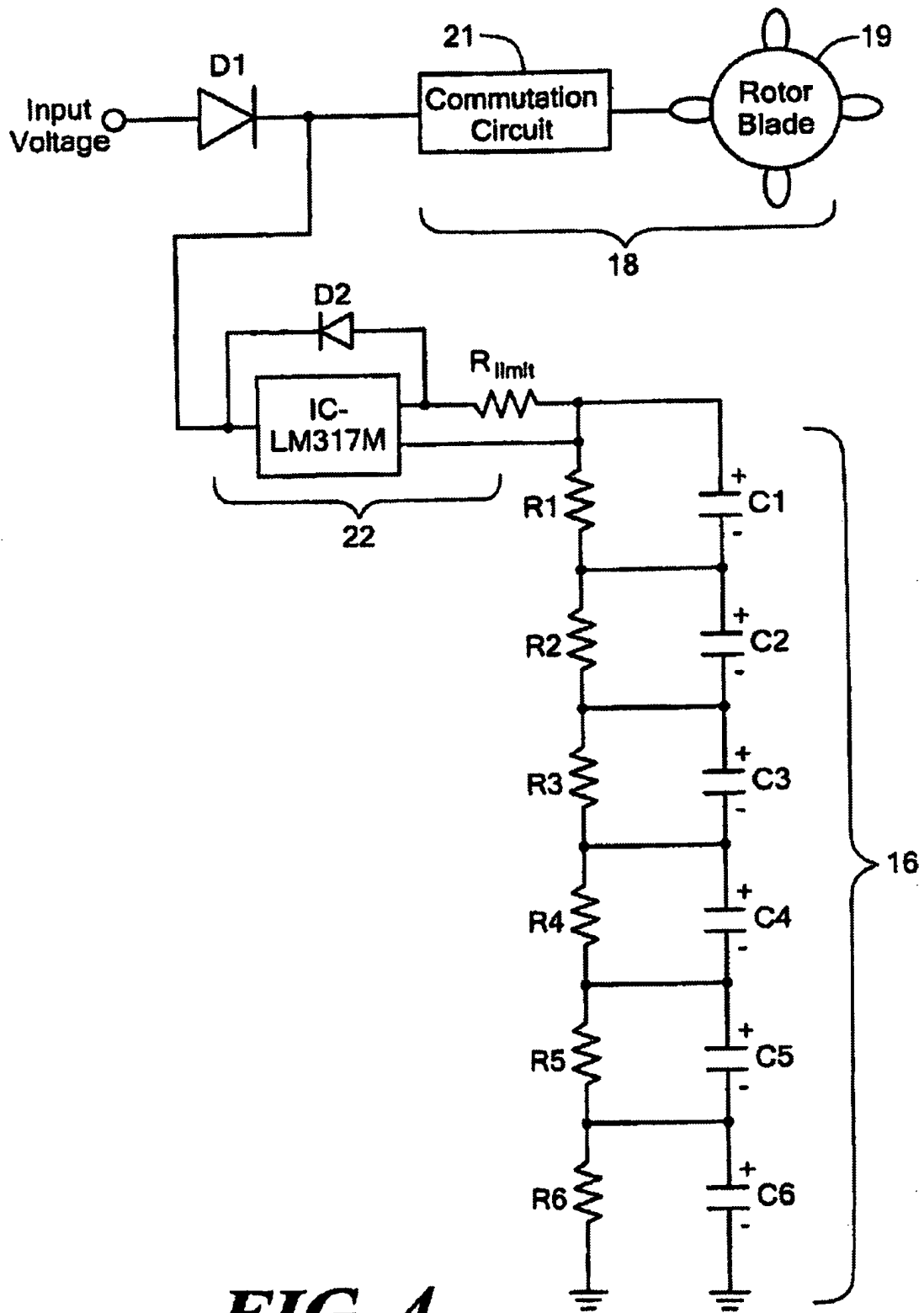
***FIG. 3***

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**FIG. 4**